torney's Docket No. 35721/265190

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re:

Kaltenboeck et al.

Confirmation No.: Not yet assigned

Appl. No.:

10/632,426

Art Unit:

Not yet assigned

Filed:

August 1, 2003

Examiner:

For:

MOUSE DISEASE MODEL FOR EVALUATION OF PROPHYLACTIC

Not yet assigned

AND THERAPEUTIC TREATMENTS FOR CHLAMYDIA

October 28, 2003

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT **CITATION UNDER 37 C.F.R. § 1.97**

Sir:

Attached is a list of documents on form PTO-1449. In accordance with the Office waiver published July 11, 2003, copies of the cited U.S. patents and patent application publications are not enclosed. Applicant does enclose copies of any cited foreign patent documents and nonpatent literature in accordance with 37 CFR 1.98(a)(2).

It is requested that the Examiner consider these documents and officially make them of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP. By submitting the listed documents, Applicant in no way makes any admission as to the prior art status of the listed documents, but is instead submitting the listed documents for the sake of full disclosure.

Respectfully submitted,

W. Murray Spruill

Registration No. 32,943

CUSTOMER NO. 00826 ALSTON & BIRD LLP Bank of America Plaza

101 South Tryon Street, Suite 4000 Charlotte, NC 28280-4000 Tel Raleigh Office (919) 862-2200

Fax Raleigh Office (919) 862-2260

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on Ostober 28, 2003

13									
Children C	or form 1	449/PTO	<u> </u>			C mplete if Kno	own		
Stop titute for (Rec) ised 04/	/2003)	+49/F 1O		pplication Nu	ımber	10/632,426			
3	2005)			ling Date		August 1, 2003			
	TO NATA	TION DISCLOSURE		rst Named In		Kaltenboeck			
			G	<u>roup Art Uni</u>	<u>t</u>	Not yet assigne	<u>d</u>		
		ENT BY APPLICANT	_			NY 4 - 4 !	1		
	(Use as n	nany sheets as necessary)		xaminer Nam		Not yet assigned			
Sheet	1	of 3	A	ttorney Dock	et Number	35721/265190			
			L.S. 1	PATENT DO	OCUMEN'	ΓS			
		Document Number	<u> </u>		J C C I I I I I				
Examiner Cite			Pub	Publication Date		Name of Patentee or		Pages, Columns, Lines, Where	
Initials*	No.	Number - Kind Code (if known)		4-DD-YYYY	Applicant of Cited Document		Relevant Passages of Relevant Figur Appear		
		110 6 00 4 ((0)		20.1004					
	1	US-5,324,668	06-2	28-1994		Macri.	+		
	L		<u> </u>				<u> </u>		
	1			N PATENT	DOCUM	ENTS	Pages Column	Lines	English
Examiner	Cite	Foreign Patent Document		Publication Date		Name of Patentee or			
Initials	No.					ant of Cited	Passages or Relevant Trans		Language Translation
		(if known)			Docum	nent	Figures App	Figures Appear	
								-	_
	·		OI	THER DOC	IMENTS			. 41	
								Engli	sh Language
		Include name of the author (in CA item (book, magazine, journal, ser		* * * * * * * * * * * * * * * * * * * *				Translation	
Examiner	Cite	publisher, city and/or country whe			ig, etc.), date,	page(s), volume-issue	mumber(s),	P	ttached
Initials	No.	publisher, city and/or country who	ne puo	manea.					
								- 40-4	
	1 2	ALLIONE, et al., "Nitric Oxide S	uppres	ses Human T Ly	mphocyte Pro	oliferation Through IF	N-7-		
	2	ALLIONE, et al., "Nitric Oxide Son Dependent and IFN-γ-Independen							
	2								
***************************************	3	Dependent and IFN-γ-Independen 4182-4191, Vol. 163.	t Induc	ction of Apoptos	sis," The Journ	nal of Immunology, 19	99, pp.		
		Dependent and IFN-y-Independen	t Induc	ction of Apoptos	sis," The Journ	nal of Immunology, 19	99, pp.		
	3	Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Modula Physiol., 1998, pp. H342-H348.	t Induc	ction of Apoptos	uction in Acti	nal of Immunology, 19	99, pp.		
		Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Modula Physiol., 1998, pp. H342-H348. DALTON, et al., "Interferon γ Eli	ates Ni	ction of Apoptos itric Oxide Products Responding C	uction in Acti	vated Macrophases,"	199, pp. 1m. J. fection by		
	3	Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Modula Physiol., 1998, pp. H342-H348.	ates Ni	ction of Apoptos itric Oxide Products Responding C	uction in Acti	vated Macrophases,"	199, pp. 1m. J. fection by		
	3	Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Module Physiol., 1998, pp. H342-H348. DALTON, et al., "Interferon γ Eli Inducing Apoptosis of Activated Compared	ates Ni	estion of Apoptos ditric Oxide Products es Responding C Cells," J. Exp. 1	uction in Acti D4 T Cells du Med., 2000, pp	vated Macrophases," A uring Mycobacterial In p. 117-122, Vol. 192(1	199, pp. 1m. J. fection by).		
	3	Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Module Physiol., 1998, pp. H342-H348. DALTON, et al., "Interferon γ Eli Inducing Apoptosis of Activated Compared to the property of the proper	ates Ni	es Responding C Cells," J. Exp. J	uction in Acti D4 T Cells du Med., 2000, pp	vated Macrophases," Auring Mycobacterial Inc. 117-122, Vol. 192(1) sults in Reduced Athe	199, pp. 1m. J. fection by).		
	3	Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Module Physiol., 1998, pp. H342-H348. DALTON, et al., "Interferon γ Eli Inducing Apoptosis of Activated Compared	ates Ni	es Responding C Cells," J. Exp. J	uction in Acti D4 T Cells du Med., 2000, pp	vated Macrophases," Auring Mycobacterial Inc. 117-122, Vol. 192(1) sults in Reduced Athe	199, pp. 1m. J. fection by).		
	3	Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Module Physiol., 1998, pp. H342-H348. DALTON, et al., "Interferon γ Eli Inducing Apoptosis of Activated Compared to the property of the proper	t Induction ates Ni minate CD4 T Induction The	es Responding C Cells," J. Exp. I	uction in Acti D4 T Cells du Med., 2000, pp	vated Macrophases," Auring Mycobacterial In p. 117-122, Vol. 1920 sults in Reduced Athe, pp. 3430-3435, Vol.	fection by .).		
	3 4 5	Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Module Physiol., 1998, pp. H342-H348. DALTON, et al., "Interferon γ Eli Inducing Apoptosis of Activated Compared to DETMERS, et al., "Deficiency in Apolipoprotein E-Deficient Mice,	t Induction ates Ni minates CD4 T Induction The sent for	es Responding C Cells," J. Exp. I	uction in Acti D4 T Cells du Med., 2000, pp	vated Macrophases," Auring Mycobacterial In p. 117-122, Vol. 1920 sults in Reduced Athe, pp. 3430-3435, Vol.	fection by .).		
	3 4 5	Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Module Physiol., 1998, pp. H342-H348. DALTON, et al., "Interferon γ Eli Inducing Apoptosis of Activated Compared to DETMERS, et al., "Deficiency in Apolipoprotein E-Deficient Mice, DIEFENBACH, et al., "Requirem Science, 1999, pp. 951-955, Vol.	minate CD4 T Induce The	es Responding C Cells," J. Exp. I lible Nitric Oxide Journal of Immu	uction in Acti D4 T Cells du Med., 2000, pp e Synthase Re unology, 2000 onthase for IL-1	vated Macrophases," Auring Mycobacterial In p. 117-122, Vol. 192(1) sults in Reduced Athe pp. 3430-3435, Vol. 2 Signaling in Innate	fection by c). cosclerosis in 165.		
	3 4 5	Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Module Physiol., 1998, pp. H342-H348. DALTON, et al., "Interferon γ Eli Inducing Apoptosis of Activated Compared to DETMERS, et al., "Deficiency in Apolipoprotein E-Deficient Mice, DIEFENBACH, et al., "Requirem Science, 1999, pp. 951-955, Vol. GANTT, et al., "Oxidative Responsations"	minates Ni minate CD4 T Induc "The ment for 284.	es Responding C Cells," J. Exp. J ible Nitric Oxide Journal of Immu	uction in Acti D4 T Cells du Med., 2000, pp e Synthase Re unology, 2000 othase for IL-1	vated Macrophases," Auring Mycobacterial In p. 117-122, Vol. 192(1) sults in Reduced Athe, pp. 3430-3435, Vol. 2 Signaling in Innate mages During Phagocy	fection by c). cosclerosis in 165.		
	3 4 5	Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Module Physiol., 1998, pp. H342-H348. DALTON, et al., "Interferon γ Eli Inducing Apoptosis of Activated Compared to DETMERS, et al., "Deficiency in Apolipoprotein E-Deficient Mice, DIEFENBACH, et al., "Requirem Science, 1999, pp. 951-955, Vol.	minates Ni minate CD4 T Induc "The ment for 284.	es Responding C Cells," J. Exp. J ible Nitric Oxide Journal of Immu	uction in Acti D4 T Cells du Med., 2000, pp e Synthase Re unology, 2000 othase for IL-1	vated Macrophases," Auring Mycobacterial In p. 117-122, Vol. 192(1) sults in Reduced Athe, pp. 3430-3435, Vol. 2 Signaling in Innate mages During Phagocy	fection by c). cosclerosis in 165.		
	3 4 5	Dependent and IFN-γ-Independen 4182-4191, Vol. 163. CHANG, et al., "Arginase Module Physiol., 1998, pp. H342-H348. DALTON, et al., "Interferon γ Eli Inducing Apoptosis of Activated Compared to DETMERS, et al., "Deficiency in Apolipoprotein E-Deficient Mice, DIEFENBACH, et al., "Requirem Science, 1999, pp. 951-955, Vol. GANTT, et al., "Oxidative Responsations"	minates Ni minates Ni minates CD4 T Inducion "The mses of Inducion Indu	es Responding C Cells," J. Exp. I lible Nitric Oxide Journal of Immu- Type 2 NO Syn F Human and Mumunology, 2001	uction in Acti D4 T Cells du Med., 2000, pp e Synthase Re unology, 2000 othase for IL-1 urine Macroph 1, pp. 893-901	vated Macrophases," Auring Mycobacterial Inc. 117-122, Vol. 192(1) sults in Reduced Athe, pp. 3430-3435, Vol. 2 Signaling in Innate mages During Phagocy, Vol. 167. (NO) Production and	fection by fection by fosclerosis in 165. Immunity," tosis of		

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date Considered

Examiner

Signature

Septitute for form 1449/PTO

	C mplete if Known	
Application Number	10/632,426	
Filing Date	August 1, 2003	
First Named Inventor	Kaltenboeck	
Group Art Unit	Not yet assigned	

INFORMATION DISCLOSURE				CHDE	First Named Inventor	Kaltenboeck				
					Group Art Unit	Not yet assigned				
			Y APPLI ets as necessar		Examiner Name	Not yet assigned				
Sheet	2		of	3	Attorney Docket Number	35721/265190				
	9	GUO, et al., "Molecular Mechanisms of Increased Nitric Oxide (NO) in Asthma: Evidence for Transcriptional and Post-Translational Regulation of NO Synthesis," <i>The Journal of Immunology</i> ," 2000, pp. 5970-5980, Vol. 164.								
	10	HERRICK, C.A. and BOTTOMLY, K., "To Respond or Not To Respond: T Cells in Allergic Asthma," Nature Reviews/Immunology, 2003, pp. 1-8, Vol. 3.								
	11	HOLLAND, et al., "Conjunctival Scarring in Trachoma Is Associated with Depressed Cell-Mediated Immune Responses to Chlamydial Antigens," <i>The Journal of Infectious Diseases</i> , 1993, pp. 1528-1531, Vol. 168.								
	12	HU, et al., "The Artherogenic Effects of Chlamydia are Eependent on Serum Cholesterol and Specific to Chlamydia pneumoniae," Journal of Clinical Investigation., 1999, pp. 747-753, Vol. 103(5).								
	13	HUANG, et al., "Nitric Oxide Regulates Th1 Cell Development Through the Inhibition of IL-12 Synthesis by Macrophages," Eur. J. Immunol., 1998, pp. 4062-4070, Vol. 28.								
	14	Imme	diate and Long	-Term Protection	d During <i>Chlamydia psittaci</i> Lung n and Reduces Macrophage Inflam e," <i>The Journal of Immunology</i> , 19	matory Protein-2 Level and				
	15			Quantity of Ni 2, pp. 3914-39	tric Oxide Released by Macrophag 19, Vol. 99(6).	es Regulates Chlamydia-induced				
	16				Murine Chlamydial Genital Infectio Clone," <i>Regional Immunology</i> , 1993					
	17				fection in Inducible Nitric Oxide Sy 282-1286, Vol. 66(4).	nthase Knockout Mice,"				
	18				onship between Arginase Activity and Pathiobiology, 2000, Chapter 1:					
	19				etection of <i>Chlamydia pneumoniae</i> 97, pp. 1785-1790, Vol. 150(5).	in Cardiovascular Atheroma,"				
	20	Protection Re	ction Against P infection," Chlo	rimary Chlamyo amydial Infectio	Determined Vigorous Innate Immidial Lung Infection in Mice, but wions, Proceedings of the Ninth Interrops, pp. 403-406.	th Profound Disease Exacerbation				
	21	LYO1 from 267(9	a Murine Macr	ecular Cloning ophage Cell Lin	and Functional Expression of an In e," <i>The Journal of Biological Cher</i>	ducible Nitric Oxide Synthase nistry, 1992, pp. 6370-6374, Vol.				
	22	l .	MICKING, et a	al., "Nitric Oxid	e and Macrophage Function," Anna	u. Rev. Immunol., 1997, pp. 323-				
	23				natis Pneumonia in the Severe Cor 3, pp. 305-311, Vol. 5(6).	nbined Immunodeficiency (SCID)				
	24		S, <i>et al</i> ., "M-1/ 166-6173, Vol.		ges and the Th1/Th2 Paradigm," Tr	ne Journal of Immunology, 2000,				
Alexander of the second	25				emic Dissemination of <i>Chlamydia</i> us Diseases, 1998, pp. 1322-1325,					
Examiner Signature						Date Considered				

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449/PTO (Seried 04/2003)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 10/632,426

Filing Date August 1, 2003

First Named Inventor Kaltenboeck

Group Art Unit Not yet assigned

Examiner Name Not yet assigned

(Use as many sheets as necessary) heet 3 of 3					Examiner Name	Not yet assigned				
Sheet	3		of		Attorney Docket Number					
	26	MOAZED, et al., "Chlamydia pneumoniae Infection Accelerates the Progression of Atherosclerosis in Apolipoprotein E-Deficient Mice," The Journal of Infectious Diseases, 1999, pp. 238-241, Vol. 180.								
	27	MORRISON, et al., "Gene Knockout Mice Establish a Primary Protective Role for Major Hisocompatibility Complex Class II-Restricted Responses in <i>Chlamydia trachomatis</i> Genital Tract Infection," <i>Infection and Immunity</i> , 1995, pp. 4661-4668, Vol. 63(12).								
	28	MUNDER, et al., "Th1/Th2-Regulated Expression of Arginase Isoforms in Murine Macrophages and Dendritic Cells," <i>The Journal of Immunology</i> , 1999, pp. 3771-3777, Vol. 163.								
	29	OSWALD, et al., "Low Response of BALB/c marophages to Priming and Activating Signals," Journal of Leukocyte Biology, 1992, pp. 315-322, Vol. 52.								
	30	PERRY, et al., "Neither Interleukin-6 nor Inducible Nitric Oxide Synthase is Required for Clearance of Chlamydia trachomatis from the Murine Genital Tract Epithelium," Infection and Immunity, 1998, pp. 1265-1269, Vol. 66(3).								
	RAMSEY, et al., "Chlamydia trachomatis Persistance in the Female Mouse Genital Tract: Inducible Nitric Oxide Synthase and Infection Outcome," Infection and Immunity, 2001, pp. 5131-5137, Vol. 69(8).									
	32	RANK, R.G., "Models of Immunity," Chlamydia: Intracellular Biology, Pathogenesis, and Immunity, 1999, Chapter 9, pp. 239-295.								
	33	1	S, R., "Atheroso 340(2).	clerosis – An In	flammatory Disease," Mechanisms	of Disease, 1999, pp. 115-126,				
	34	Chla	OTTENBERG, et al., "Role of Innate and Adaptive Immunity in the Outcome of Primary Infection with lamydia pneumoniae, as Analyzed in Genetically Modified Mice," The Journal of Immunology, 1999, 2829-2836, Vol. 162.							
	35	SCHACHTER, J., "Infection and Disease Epidemiology," Chlamydia: Intracellular Biology, Pathogenesis, and Immunity, 1999, Chapter 6, pp. 139-169.								
v	36	SCHWACHA, M.G. and EISENSTEIN, T.K., "Interleukin-12 is Critical for Induction of Nitric Oxide-Mediated Immunosuppression following Vaccination of Mice with Attenuated Salmonella typhimurium," Infection and Immunity, 1997, pp. 4897-4903, Vol. 65(12).								
	37	SCHWACHA, et al., "Salmonella typhimurium Infection in Mice Induces Nitric Oxide-Mediated Immunosuppression through a Natural Killer Cell-Dependent Pathway," Infection and Immunity, 1998, pp. 5862-5866, Vol. 66(12).								
	38	STEVENSON, et al., "Genetic Linkage of Resistance to Listeria Monocytogenes with Macrophage Inflammatory Responses," The Journal of Immunology, 1981, pp. 402-407, Vol. 127(2).								
	39									
	WILTSHIRE, et al., "Genome-wide Single-nucleotide Polymorphism Analysis Defines Haplotype Patterns in Mouse," PNAS, 2003, pp. 3380-3385, Vol. 100(6).									
	41	•	GHT, <i>et al</i> ., "In 437-1441, Vol.	_	Are Not Necessary for Murine Ath	erogenesis," J. Exp. Med., 2000,				
	42	XIE, et al., "Cloning and Characterization of Inducible Nitric Oxide Synthase from Mouse Macrophages," Science, 1992, pp. 226-228, Vol. 256.								

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.